



SEQUENCE LISTING

<110> Citovsky, Vitaly H
Rhee, Yoon

<120> Genetic Assay for Protein Nuclear Transport

<130> 001.00301

<140> US 09/435,274

<141> 1999-11-05

<150> US 60/107,417

<151> 1998-11-06

<160> 13

<170> PatentIn Ver. 2.1

<210> 1

<211> 611

<212> DNA

<213> Unknown Organism

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<223> Description of Unknown Organism:bacterial

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<223> modified bacterial lexA

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gcgcatcacg cgggattcgt ctgttgagg aagaggaaga agggttgccg ctggtaggtc 240
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atccttcctt attcaagccg aatgctgatt tctgctgcg cgtcagcggg atgtcgatga 360
aagatcgcg cattatggat ggtgacttgc tggcagtgca taaaactcag gatgtacgta 420
acggtcaggc cgttgctgca cgtattgatg acgaagttac cgtaagggc ctggaaaaac 480
agggcaataa agtcgaactg ttgccagaaa atagcgagtt taaaccaatt gtctgttgacc 540
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<213> Unknown Organism

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<223> Description of Unknown Organism:bacterial

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<223> modified bacterial lexA

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Asp His Ile Ser Gln Thr Gly Met Pro Pro Thr Arg Ala Glu Ile Ala
20 25 30

Gln Arg Leu Gly Phe Arg Ser Pro Asn Ala Ala Glu Glu His Leu Lys
35 40 45

Ala Leu Ala Arg Lys Gly Val Ile Glu Ile Val Ser Gly Ala Ser Arg
50 55 60

Gly Ile Arg Leu Leu Gln Glu Glu Glu Glu Gly Leu Pro Leu Val Gly
65 70 75 80

Arg Val Ala Ala Gly Glu Pro Leu Leu Ala Gln Gln His Ile Glu Gly
85 90 95

His Tyr Gln Val Asp Pro Ser Leu Phe Lys Pro Asn Ala Asp Phe Leu
100 105 110

Leu Arg Val Ser Gly Met Ser Met Lys Asp Ile Gly Ile Met Asp Gly
115 120 125

Asp Leu Leu Ala Val His Lys Thr Gln Asp Val Arg Asn Gly Gln Val
130 135 140

Val Val Ala Arg Ile Asp Asp Glu Val Thr Val Lys Gly Leu Glu Lys
145 150 155 160

Gln Gly Asn Lys Val Glu Leu Leu Pro Glu Asn Ser Glu Phe Lys Pro
165 170 175

Ile Val Val Asp Leu Arg Gln Gln Ser Phe Thr Ile Glu Gly Leu Ala
180 185 190

Val Gly Val Ile Arg Asn Gly Asp Trp Leu Glu Phe
195 200

<210> 3
<211> 7
<212> PRT
<213> Simian virus 40

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<223> large T antigen NLS

<400> 3
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<210> 4
<211> 16
<212> PRT
<213> Xenopus sp.

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<223> nucleoplasmin NLS

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Lys Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Lys Lys Leu
1 5 10 15

<210> 5
<211> 9
<212> PRT
<213> Human immunodeficiency virus type 1

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<223> Rev protein NES

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<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence:nuclear export
signal

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<223> mutated NES of pNEAM10

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Leu Pro Pro Asp Leu Arg Leu Thr Leu
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<212> PRT
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signal

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<223> residual NES of pNEARev(delta)3

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<212> DNA
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<212> DNA

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<212> DNA

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<223> mutant lexA primer

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